

## ABSTRACT OF THE DISCLOSURE

The invention is related to a vessel comprising apparatus for mixing goods with an agent and separating goods from an agent. The apparatus includes a mixing section for mixing goods with an agent. The apparatus includes a vertically disposed conduit with an inlet and outlet for goods and an inlet and outlet for an agent. The conduit also comprises a first screw conveyor within the conduit to compress the goods while transferring the goods through the conduit, and a second tapered screw conveyor section above the first screw conveyor section. The inlet for the agent is above the tapered screw conveyor section and the outlet for the agent is below the tapered screw conveyor section.

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